



Container Closure Integrity Testing (CCIT)

Rapid set-up for small and large-volume products

CCIT is a crucial process to ensure that vials, ampoules, syringes, and other pharmaceutical packaging are hermetically sealed. This process ensures product sterility and stability by preventing contamination from microorganisms, particulates, and gases. At Solvias, we offer a range of **deterministic** methods for CCIT, including both **non-destructive** and destructive techniques. Our testing solutions align with regulatory authority recommendations, ensuring precise and reliable integrity testing for compliance and safety.

Non-Destructive Methods

Vacuum Decay Method

Detects leaks by evacuating a chamber containing the container and monitoring for any increase in pressure, which indicates a breach in the container's integrity. Ideal method for **lyophilized or empty products**.

Pressure Decay Method

Detects leaks by pressurizing a container within a sealed chamber and monitoring for any decrease in pressure, which indicates a breach in the container's integrity. Ideal method for **cytotoxic products**.

Destructive Methods

Microbial Ingress Test (MIT)

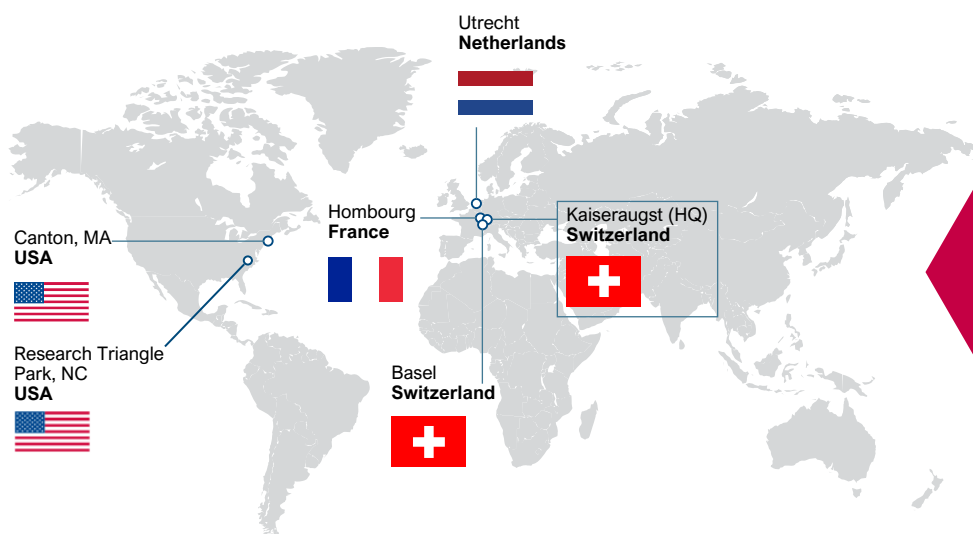
Tests the ability of container closures to prevent the entry of microorganisms by inoculating the external environment with a known microbe and monitoring for any microbial growth inside the container

Dye Ingress Method

Tests the integrity of liquid-filled containers by submerging them in a dye solution and applying pressure or vacuum to detect any dye penetration, indicating leaks.

Why partner with us?

- CDMO/CRO
- Founded in 1999
- 800+ team members
- 175+ PhD-level scientists
- GMP, GLP, ISO9001 certified
- 22.5K sqm of lab capacity
- 700+ customers worldwide
- 6 centers of excellence



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